

MASONRY PROCEDURES

1. GENERAL

1.1 Work Included

- .1 Masonry Work is described in other Sections of Division 4.

1.2 References

- .1 CSA A179 Mortar and Grout for Unit Masonry.
- .2 CSA 3-A371 Masonry Construction for Buildings.

1.3 Source Quality Control

- .1 Submit laboratory test reports in accordance with Section the General Conditions.
- .2 Submit laboratory test reports certifying compliance of masonry units and mortar ingredients with Specification requirements.

1.4 Samples

- .1 If requested by the Contract Administrator, submit samples in accordance with The General Conditions.
- .2 Submit samples:
 - .1 Two (2) of each type of masonry unit specified
 - .2 One (1) of each type of masonry accessory specified
 - .3 One (1) of each type of masonry reinforcement and tie proposed for use
 - .4 As required for testing purposes

1.5 Product Delivery, Storage, and Handling

- .1 Deliver materials to job Site in dry condition.
- .2 Keep materials dry until use, except where wetting of bricks is specified.
- .3 Store under waterproof cover on pallets or plank platforms held off ground by means of plank or timber skids.

1.6 Cold Weather Requirements

- .1 Supplement Clause 5.15 of CSA A371 with the following requirements:
 - .1 Maintain temperature of mortar between 5°C and 50°C until batch is used.

1.7 Hot Weather Requirements

- .1 Protect freshly laid masonry from drying too rapidly, by means of waterproof, non-staining coverings.

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1.8 Protection

- .1 Keep masonry dry using waterproof, non-staining coverings that extend over walls and down sides sufficient to protect walls from wind driven rain, until masonry Work is completed and protected by flashings or other permanent construction.
- .2 Protect masonry and other Work from marking and other damage. Protect completed Work from mortar droppings. Use non-staining coverings.
- .3 Provide temporary bracing of masonry Work during and after erection until permanent lateral support is in place.

2. PRODUCTS

2.1 Materials

- .1 Reused Masonry Materials.
- .2 Masonry materials are specified in other Sections of Division 4.

3. EXECUTION

3.1 Workmanship

- .1 Do masonry Work in accordance with CSA A371 except where specified otherwise.
- .2 Build masonry plumb, level, and true to line, with vertical joints in alignment.
- .3 Layout coursing and bond to achieve correct coursing heights, and continuity of bond above and below openings, with minimum of cutting.

3.2 Tolerances

- .1 Tolerances in notes to Clause 5.3 of CSA A371 apply.

3.3 Exposed Masonry

- .1 Remove chipped, cracked, and otherwise damaged units in exposed masonry and replace with undamaged units.

3.4 Jointing

- .1 Allow joints to set just enough to remove excess water, and then tool with round joints to provide smooth, compressed, uniformly concave joints where concave joints are indicated.
- .2 Strike flush all joints concealed in walls and joints in walls to receive plaster, tile, insulation, or other applied material except paint or similar thin finish coating.

3.5 Cutting

- .1 Cut out neatly for electrical switches, outlet boxes, and other recessed or built-in objects.

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- .2 Make cuts straight, clean, and free from uneven edges.

3.6 Building-in

- .1 Build in items required to be built into masonry.
- .2 Prevent displacement of built-in items during construction. Check plumb, location, and alignment frequently, as Work progresses.
- .3 Brace door jambs to maintain plumb. Fill spaces between jambs and masonry with mortar.

3.7 Parging

- .1 Use parging mortar specified in Section 04100.
- .2 Apply parging mortar where indicated in uniform coating not less than 10 mm thick.

3.8 Support of Loads

- .1 Use concrete to Section 03300, where concrete fill is used in lieu of solid units, such as vertical cores, bond beams, and lintels.
- .2 Install building paper below voids to be filled with concrete or grout; keep paper 25 mm back from faces of units.

3.9 Provision for Movement

- .1 Leave a minimum of 40 mm space or as indicated on the Drawings, between top of non-load bearing walls and partitions and structural elements. Do not use wedges.
- .2 Build masonry to tie-in with stabilizers, with provision for vertical movement.

3.10 Control Joints

- .1 Construct continuous control joints as indicated on the Drawings.

3.11 Expansion Joints

- .1 Build-in continuous expansion joints as indicated.

3.12 Field Quality Control

- .1 Inspection and testing will be carried out by a testing laboratory designated by the Contract Administrator.
- .2 The City will pay costs for testing.
- .3 Costs for additional testing required as a result of defective materials will be the responsibility of the Contractor.

END OF SECTION